

Precalculus

Trigonometric Equations and Identities

The list below contains the specific *learning targets* for the unit on trigonometric equations and identities. Before the unit test, you should be able to place a check next to each statement as being true.

- I can solve trigonometric equations graphically.
- I can solve simple trigonometric equations.
- I can solve trigonometric equations involving multiple angles.
- I can solve trigonometric equations by factoring.
- I can identify and use the following trigonometric identities:
 - reciprocal
 - quotient
 - Pythagorean
 - negative
 - cofunction
 - sum and difference
 - double angle

Textbook Assignments

The exercises below are from *Precalculus: A Graphing Approach* by Hungerford, Jovell, and Mayberry. These specific problems are the bare minimum that should be completed after each lesson, but you are encouraged to attempt more if needed.

- 8.1 Solving Trigonometric Equations **pg 528: 1, 5, 7, 15, 17, 23, 28**
- 8.3 Solving Trigonometric Equations **pg 546: 23, 25, 27, 37, 39, 49, 50, 52**
- 9.1 Trigonometric Identities **pg 580: 17, 31, 33, 37, 53, 55, 63**
- 9.2 Sum and Difference Identities **pg 587: 1-11 (odd), 19, 20**
- 9.2 Sum and Difference Identities **pg 587: 37, 39, 45, 47, 52, 53, 57**
- 9.3 Double Angle Identities **pg 600: 23, 25, 27, 45-50**
- 9.3 Double Angle Identities **pg 600: 51-54, 57, 58**
- 9.4 Solving Trigonometric Equations **pg 608: 1, 2, 3, 9, 14, 17, 21, 22**

Assignments are subject to change in class.